

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P484547

Luminaire Tested: **IFLD-S-SA2A-830-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484547
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

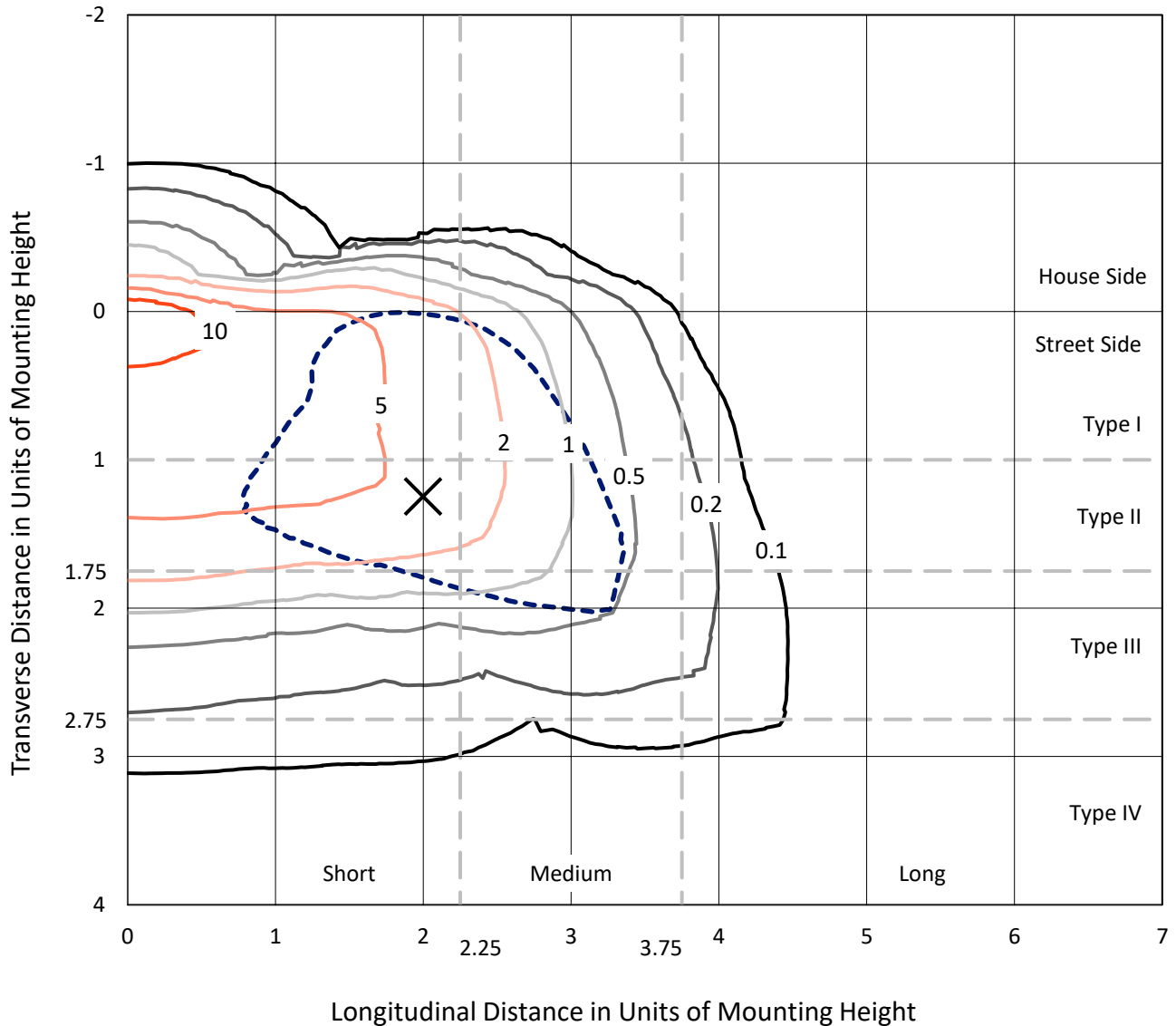
Lumens per Lamp: N/A
Luminaire Lumens: 6135 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

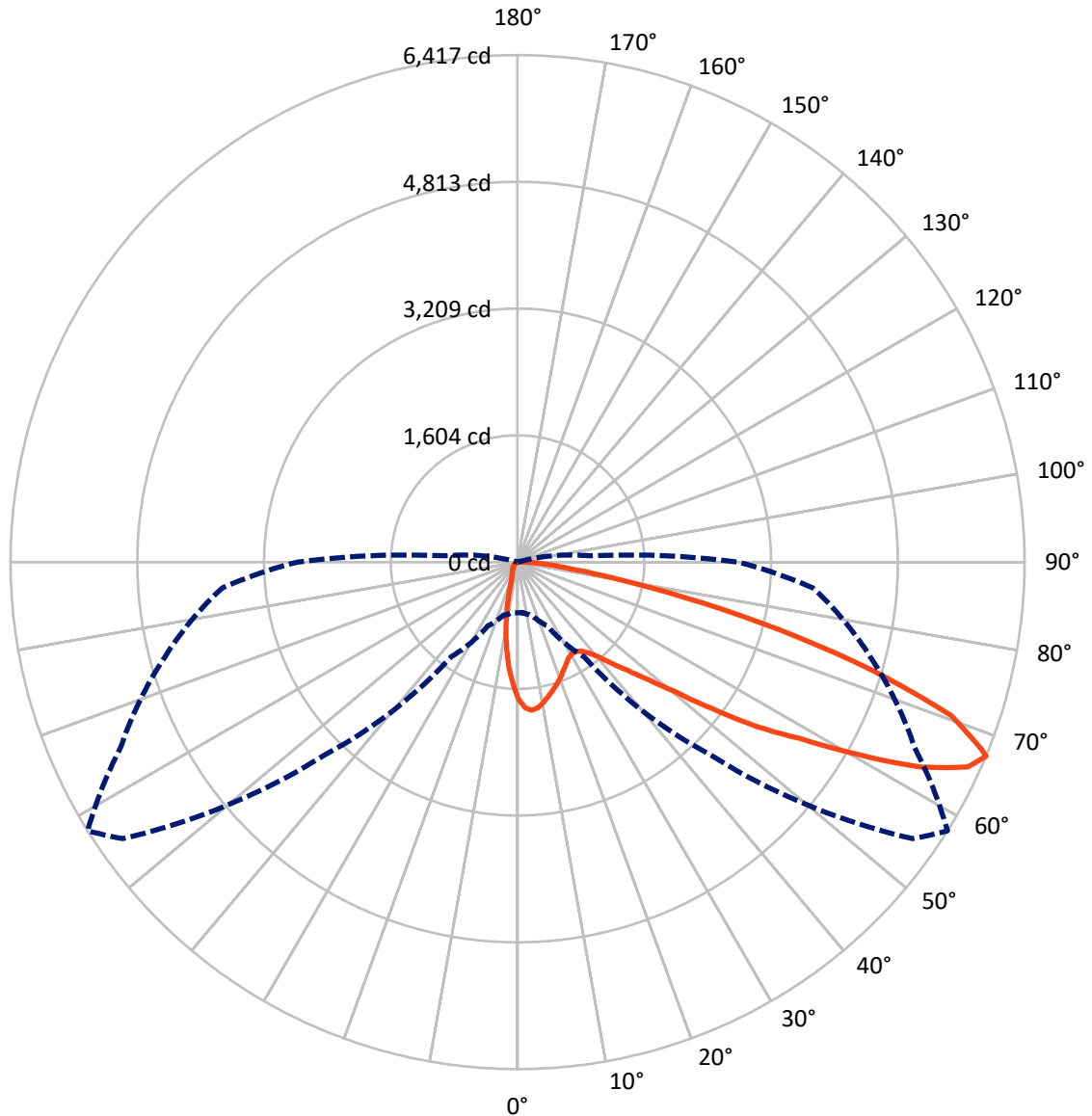
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.1	0.0	507.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	5627.9	0.0	5627.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	6135.0	0.0	6135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	2.2
10°-20°	286.1	4.7
20°-30°	379.5	6.2
30°-40°	525.9	8.6
40°-50°	858.1	14.0
50°-60°	1508.3	24.6
60°-70°	1670.6	27.2
70°-80°	692.3	11.3
80°-90°	76.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6135.0	100.0
0°-180°	6135.0	100.0



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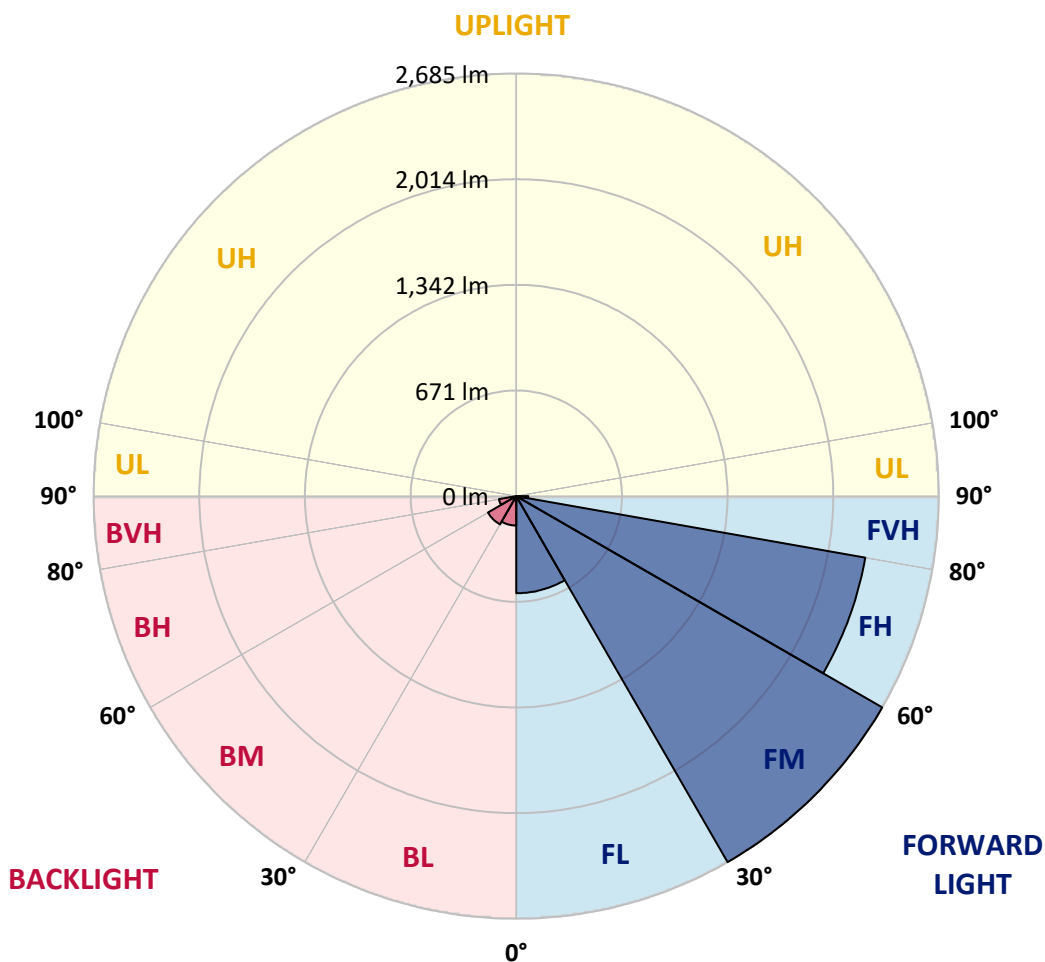
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.7	10.1			
FM (30°-60°)	2684.8	43.8			
FH (60°-80°)	2251.4	36.7			G2/5000
FVH (80°-90°)	75.0	1.2			G1/100
BL (0°-30°)	186.8	3.0	B1/500		
BM (30°-60°)	207.6	3.4	B0/220		
BH (60°-80°)	111.5	1.8	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	1891.3	1897.8	1903.5	1892.9	1901.8	1888.8	1855.4	1848.1	1842.4	1792.7	1764.2
5°	1890.4	1883.1	1888.8	1893.7	1881.5	1891.3	1883.1	1883.9	1861.9	1817.1	1737.3
7.5°	1764.2	1760.9	1764.2	1787.8	1814.7	1835.9	1848.1	1860.3	1845.6	1778.9	1701.5
10°	1594.0	1610.3	1619.2	1661.6	1703.1	1742.2	1780.5	1803.3	1799.2	1772.3	1662.4
12.5°	1475.0	1470.2	1502.7	1530.4	1572.0	1651.0	1717.8	1738.9	1763.4	1725.9	1611.1
15°	1365.1	1352.1	1371.6	1419.7	1490.5	1553.2	1646.9	1678.7	1709.6	1719.4	1583.4
17.5°	1260.0	1266.5	1286.9	1330.1	1396.9	1484.8	1572.8	1618.4	1692.5	1679.5	1541.8
20°	1209.5	1223.4	1230.7	1252.7	1299.1	1387.1	1518.2	1554.9	1633.9	1678.7	1501.1
22.5°	1212.0	1212.0	1194.9	1207.9	1250.2	1318.7	1444.1	1484.8	1610.3	1636.3	1464.5
25°	1238.0	1221.7	1222.6	1207.1	1225.0	1262.5	1377.3	1427.0	1562.2	1640.4	1444.9
27.5°	1257.6	1254.3	1249.4	1245.4	1222.6	1228.3	1333.3	1374.0	1543.5	1635.5	1414.8
30°	1328.4	1313.8	1308.9	1299.9	1269.8	1242.1	1298.3	1349.6	1528.8	1646.9	1397.7
32.5°	1387.9	1390.3	1394.4	1368.3	1342.3	1273.9	1308.1	1348.8	1518.2	1673.0	1414.8
35°	1462.8	1473.4	1475.0	1466.9	1439.2	1371.6	1348.8	1383.8	1536.1	1719.4	1416.4
37.5°	1576.9	1565.5	1596.4	1599.7	1580.1	1490.5	1443.3	1457.1	1589.1	1793.5	1478.3
40°	1651.0	1664.8	1722.7	1758.5	1725.1	1643.6	1580.1	1577.7	1665.6	1910.0	1554.9
42.5°	1733.2	1764.2	1827.7	1905.1	1901.0	1825.3	1760.9	1750.3	1801.7	2078.6	1676.2
45°	1845.6	1873.3	1962.1	2078.6	2142.1	2077.8	1980.8	1959.7	1967.0	2308.3	1883.1
47.5°	2032.2	2024.8	2152.7	2267.5	2371.8	2322.1	2280.6	2218.7	2213.0	2578.7	2169.0
50°	2243.1	2241.5	2355.5	2485.8	2606.4	2703.3	2634.1	2566.5	2568.1	2946.0	2505.4
52.5°	2443.5	2475.2	2598.2	2727.7	2934.6	3038.9	3105.7	3078.8	2949.3	3274.3	2865.4
55°	2549.4	2577.1	2699.2	2922.4	3249.0	3517.0	3697.8	3675.0	3424.9	3644.0	3220.5
57.5°	2449.2	2467.9	2633.3	2925.7	3468.9	4066.8	4240.3	4211.7	3916.9	3926.7	3649.7
60°	2029.7	2059.0	2305.0	2647.9	3383.4	4490.3	4987.1	4944.0	4364.9	4284.2	3925.9
62.5°	1405.8	1425.4	1627.4	2054.2	2977.8	4637.7	5692.5	5716.1	4837.3	4562.8	4008.1
65°	910.6	909.0	1024.6	1313.8	2110.4	4191.4	6109.5	6256.1	5293.4	4605.1	3982.9
67°	643.4	641.0	695.6	891.1	1461.2	3453.5	6102.2	6417.4	5541.0	4617.4	3749.1
67.5°	593.8	591.3	643.4	819.4	1318.7	3211.5	6011.0	6334.3	5628.1	4600.3	3646.5
70°	461.0	454.5	474.0	564.4	768.1	2077.0	5144.3	5818.7	5447.3	4173.5	2911.8
72.5°	333.1	340.5	371.4	463.4	602.7	1117.5	3921.0	4705.3	4549.8	3145.6	1850.5
75°	232.1	238.6	288.3	377.9	553.0	677.7	2651.2	3412.7	3169.2	1736.5	788.4
77.5°	121.4	129.5	184.1	302.2	502.5	524.5	1584.2	2164.1	1679.5	618.2	217.5
80°	56.2	60.3	92.0	214.2	420.3	461.0	923.6	1203.8	672.0	138.5	74.9
82.5°	24.4	26.9	42.4	123.0	298.1	403.2	571.8	631.2	243.5	44.8	46.4
85°	4.9	5.7	16.3	65.2	144.2	244.3	401.5	374.7	122.2	22.0	36.7
87.5°	0.0	0.0	4.1	18.7	39.1	72.5	170.2	170.2	37.5	11.4	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	1738.9	1709.6	1645.3	1585.8	1543.5	1495.4	1431.9	1403.4	1392.8	1378.1	1356.1
5°	1693.3	1657.5	1547.5	1436.8	1315.4	1223.4	1125.6	1068.6	1025.4	998.6	989.6
7.5°	1629.0	1555.7	1407.4	1229.9	1072.7	935.9	787.6	687.4	623.1	597.0	572.6
10°	1577.7	1482.4	1256.8	1036.0	826.7	626.3	459.4	371.4	304.6	279.4	276.1
12.5°	1510.9	1396.9	1115.9	838.1	575.0	373.0	254.1	220.7	202.0	198.7	196.3
15°	1455.5	1319.5	982.3	649.2	372.2	232.9	197.9	189.8	184.9	183.3	184.1
17.5°	1418.0	1236.4	845.4	472.4	245.2	190.6	182.4	177.6	175.1	174.3	171.9
20°	1343.9	1166.4	710.2	330.7	191.4	175.9	169.4	165.3	162.9	162.1	161.3
22.5°	1301.6	1077.6	575.0	230.5	170.2	159.6	154.8	151.5	147.4	145.0	144.2
25°	1259.2	1012.4	454.5	179.2	154.8	147.4	140.1	136.0	129.5	126.2	125.4
27.5°	1209.5	948.1	350.2	155.6	139.3	131.9	124.6	118.1	110.0	106.7	105.1
30°	1181.0	885.4	263.9	139.3	127.9	118.1	109.1	101.0	92.0	86.3	84.7
32.5°	1166.4	828.3	197.9	127.1	115.7	105.1	93.7	83.9	75.7	70.9	70.0
35°	1148.4	773.0	155.6	115.7	104.3	92.9	81.4	71.7	63.5	59.5	57.8
37.5°	1167.2	740.4	129.5	106.7	95.3	82.3	70.0	60.3	53.8	49.7	48.9
40°	1218.5	713.5	112.4	98.6	86.3	72.5	61.1	51.3	45.6	42.4	40.7
42.5°	1297.5	713.5	101.8	90.4	78.2	63.5	52.1	44.8	39.1	35.8	35.0
45°	1440.8	735.5	92.9	82.3	68.4	54.6	44.8	37.5	31.8	28.5	27.7
47.5°	1642.0	786.0	85.5	74.9	61.1	48.1	39.1	31.8	26.1	22.8	22.0
50°	1912.4	900.8	78.2	66.0	54.6	41.5	32.6	25.2	20.4	17.1	16.3
52.5°	2249.6	1063.7	70.9	61.1	46.4	35.0	26.1	20.4	15.5	13.0	12.2
55°	2606.4	1263.3	61.9	54.6	39.9	29.3	21.2	15.5	11.4	9.8	9.0
57.5°	2965.6	1417.2	54.6	47.2	32.6	23.6	17.1	12.2	8.1	6.5	5.7
60°	3156.2	1431.9	47.2	39.1	26.1	18.7	13.0	9.0	5.7	4.1	3.3
62.5°	3185.5	1301.6	40.7	31.8	21.2	14.7	9.0	6.5	3.3	1.6	1.6
65°	3034.8	1084.9	35.0	25.2	16.3	10.6	6.5	4.1	1.6	0.8	0.0
67°	2790.5	909.0	30.1	21.2	13.0	8.1	4.9	2.4	0.8	0.0	0.0
67.5°	2696.0	860.1	28.5	19.5	12.2	7.3	4.1	2.4	0.8	0.0	0.0
70°	2092.4	614.1	21.2	13.8	9.0	5.7	3.3	1.6	0.0	0.0	0.0
72.5°	1282.0	359.2	16.3	9.8	6.5	4.1	2.4	0.8	0.0	0.0	0.0
75°	537.6	123.8	13.8	7.3	4.9	2.4	1.6	0.8	0.0	0.0	0.0
77.5°	140.1	46.4	9.8	4.9	3.3	2.4	1.6	0.8	0.0	0.0	0.0
80°	57.0	21.2	6.5	3.3	3.3	2.4	1.6	0.8	0.0	0.0	0.0
82.5°	37.5	9.8	4.1	3.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0
85°	28.5	5.7	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	3.3	2.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)